

The COOPER PIONEER

ART SCIENCE

Vol. I.

FRIDAY, JANUARY 28, 1921

No. 1

COOPER DAY TECH DEFEATS MANHATTAN IN INTERESTING GAME

On Saturday evening, January 8th, at the Savage Gym, the Cooper Day Basketball Team defeated the Manhattan College Five in the most closely contested game that the Cooper team has yet played. That it was so, is clearly shown by the fact that the final score was 21-18.

Both teams were game to the end, for it wasn't till the last few minutes of play that the game was decided in our favor. At the end of the first half, Cooper lead by a score of 6-3, Rhodes, Diamond and Meier being "responsible" for one field goal each. In the second period both teams loosened up and accounted for 15 points each. It was during this period that the score see-sawed from one side to the other, giving the spectators good cause for cheering. The Manhattanites, unable to break through the defence of Capt. Meier, Diamond, and Rhodes, resorted to long shots; in this way caging six field goals from long distances, Hemlin, the Manhattan center, accounting for three of these shots. Much credit must here be given to the "minute" Freda, the Manhattan forward, who despite a severe injury to his nose in the early part of the game, still would not leave the line up. He was much applauded for his gameness.

The star of the evening was our own Johnny "Kid" Bossert. Spurred on apparently by some *One* in the balcony, he lead the attack of the Cooperites by dropping in four difficult baskets. Capt. Meier then found time to add two more and Griffiths the "Skeptical" netted two pretty ones from difficult angles. Our Hal Rhodes played his usual hard and steady game, making frequent openings for the forwards to score.

The team lined up as follows:

F. G. FOULS

Bossert, R. F.	4	
Griffiths, L. F.	2	1
Rhodes, C.	1	
Meier, R. G.	2	
Diamond, L. G.	1	
	10	1

Total 21 Points

Dancing, as much as there was of it, was enjoyed after the game.

SENIOR DANCE OF SCIENCE STUDENTS A GAY AFFAIR

The Cooper Union Science Class of 1921 held its Senior Dance on Saturday, January 22, in the Grand Ballroom of the Park Avenue Hotel.

The chemical, electrical, civil and mechanical engineering students of the day and night departments combined to make this affair a tremendous success.

Once for all it has established that engineers can dance.

It is not yet known which helped most to inspire the engineers in their rendition of the terpsichorean art. Some think it was due to the irresistible jazz band. Others winked slyly and remarked about the punch; and, by the way, there were two kinds of punch, one "strong," and the other with less "kick." Needless to say, only the aforementioned was in demand.

Both the Nantucket and the Broom Dance were responsible for many new friendships, and throughout the whole evening a spirit of sociability existed unparalleled in the affairs of Cooper.

The first of the Faculty to arrive was Prof. Enders, and the Prof. was certainly given a warm welcome. Others of the faculty present were Prof. Foss and Mr. Tanzola. They all expressed their admiration at the spirit prevailing.

During the evening the victory of the Cooper Union Night Basketball Team over the Fordham Law College was announced and was met by concerted cheers.

The joyous incidents of the affair will never be forgotten by those who were present.

Our own jazz band provided the music for the leg twists. Why, their jazzing so enticed that even the timid "male with male" could not resist the temptation to get out on the boards for a wiggle.

On January 29th our team will meet the five of the N. Y. U. Day School of Commerce. Do not forget that the Cooper jazz artists will once more appear as the unbeatable syncopaters.

Let us show our visitors that we are a live bunch. And show the men on the team that they are not merely playing for their own satisfaction. Come along with your song and cheer.

THE MATHEMATICS CLUB

At the beginning of the present school year, a group of students of the Day School formed the Mathematics Club. The purpose of the organization is to foster the true spirit of mathematical study. This is accomplished by having reports presented on interesting subjects of mathematics, which are not ordinarily met in collegiate study. A student or member of the faculty speaks on the subject assigned, after which a general discussion follows:

The program to date has been as follows:

SUBJECT

1. Transfinite Numbers, given by Prof. Reddick.
2. The Evaluation of Pi, given by Overton, '23.
3. Mathematical Fallacies, given by Gerdin, '24.
4. Magic Squares, given by Serper, '24.
5. Trisection of the Angle, given by Riess, '23.

Future programs will include talks on

Non-Euclidean Geometry, by Levine, '21.

Duality in Mathematics, by Samson, '24.

The concept of the Fourth Dimension, by Mr. Tanzola.

A student does not have to be a mathematical "shark" to become a member of the club. All students of mathematics will be benefitted by attending the bi-weekly meetings. No subject will be presented which is not really elementary for all concerned. Here is an opportunity for all Cooper Union students to become interested in an extra-curriculum activity. The club will help you and you will help advertise Cooper Union to outsiders, by making the club an active one, an interesting one, and a big one.

Come along to our next meeting, on Monday, January 31, 1921, at 4:30, in Room 23, when will be presented an interesting program on "Problems." Solutions will be given of interesting simple problems from elementary mathematics. Come to this meeting and you will come again.

Program of this meeting:

1. Election of officers.
2. "Problems."
3. Discussion.

VICTORY FOR COOPER UNION (NIGHT)

Cooper Night Five Too Much for Fordham Law!

It is a good omen that the first issue of the "Pioneer" can go on record as reporting a victory for our basket ball team in its game last Saturday evening.

At the 54th St. Gymnasium, before a crowd of about 200, our team played a wonderful game, and when the final whistle blew and the turmoil of noise had stilled for a moment, our team found itself on the long end of the 22-14 score.

From the time that the team took the floor amidst the rattling short cheers for the individual players until the end of the first half, the game was a sensation. Both teams fought hard and the end of the first half found them deadlocked at 10 points each.

In the second half our boys "found themselves" and literally played rings around their opponents. Our team gave the impression that it had been feeling out the strength of the Fordhamites; for during the second half, the Lawyers could score only 4 points and those on free throws from foul. Our defence did not allow the Fordham collegians a single field goal. For themselves, the Cooper Night Quintet scored four field goals and four points from fouls in this half.

The remarkable feature of the game was the passing of our boys. Getting the jump at center every time, our "five" worked offensive signals all through this half and amazed their opponents and the spectators by their speed and judgment. However, our boys did not forget their system of defence, as is apparent from the fact that Fordham scored but 4 points.

When the second half had progressed about ten minutes, our boys so far outclassed their opponents that the coach rushed in an entire new line up, substituting for every one of our regulars, and giving them a well-earned rest. Even our subs seemed to have the number of the Fordham collegians.

The stars of the game were Capt. Rosso, Ludwig and Spiro.

(Continued on page 4)

THE COOPER PIONEER

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EDITORIAL

THE REASON WHY

The prime motive in issuing this paper is to produce a means whereby the students, the faculty and the alumni of the Cooper Union, can discuss those matters which would promote the general welfare of the institution and its members. This publication will strive to elevate the school status, to promote school spirit, to inspire our athletic teams, to create everlasting friendship and will strive to instill co-operative tendencies within those who tend to isolate themselves from the activities of the Union, and further, through these columns, we hope to expose those individuals or organizations (if there be any), which for selfish or mere power-loving motives, hinder the progress of projects which would benefit the school.

We have long understood the necessity for such a paper. Now, we come to realize its importance. With its rays of truth, it will dispell the fog of misunderstanding. Its words will be a happiness to those who strive for the good and welfare of the school, but will smite, as with fire and sword, the foes of its progress.

Kind readers, with your fullest enthusiasm, give your energies and lend your talents, to make this paper the pride of your Alma Mater and of yourselves. In a simple and convincing manner, write your articles and discussions which you consider as factors towards making a Cooper Union, of co-operative action.

CO-OPERATION

Co-operation. How often have we seen or heard that word and how seldom have we applied its meaning in our daily lives. On every side are examples of its benefits but none are so blind as those who will not see. Let us open our eyes and look around. In government, compare the United States with any portion of western Europe of similar territory. In business, compare the achievements of the great corporations with those of a single proprietary business; or compare the advances of members of co-operative societies or stores with those who buy as they go. In science, compare the results of European countries, particularly Germany, where the scientific men keep each other informed of their individual progress, with our own country where the scientific men hinder the general advance of knowledge through distrust of one another, and lack of co-operation.

Can a modern skyscraper be erected if the mason, iron-worker and plumber refuse to work together? Can a ship cross the ocean if the engine-room force refuses to work with the captain and officers on the bridge? Can an athletic team win a game when each member of the team works independently of the others?

In this issue we have dealt with co-operation in a broad sense. In future issues, as occasion may require it, we shall deal with particular cases in the school.

SPORTS

CHESS!

At the last meeting of the Night A. O. a big surprise was handed in the form of the schedule of the Chess Team. Gosh! It almost knocked everyone off his feet. Our noble "Chess-Nuts" had been working on the q. t. and just see what they have done. Commencing with February 5th and every Saturday thereafter, our Chess Team meets the following opponents; without doubt the biggest in the country:

Ocean Hill C. C. at Brooklyn; Central Y. M. C. A., Marshall C. C., Brooklyn C. C., College of City of New York, I. L. Rice Progressive Club, Staten Island C. C., New York University, Columbia University, Newark Chess Club, Swedish C. C. *Some schedule!*

The Chess Club meets every Saturday afternoon in the Alumni Room of the Old Building. Membership is open to all students and graduates of Cooper Union. Keep your eyes open and turn them slightly toward our chess club.

TRACK!

A track team is being organized under the leadership of Martin, one of our crack runners. He is urging more men to report and promises them plenty of work, for our membership in the A. A. U. will entitle us to enter the biggest college and club meets held hereabouts.

BASEBALL!

Baseball rumblings are being heard and before long will burst out into full sound. National sport lovers report to Manager Breslow in Room 23, Monday evenings, at A. O. meetings.

BASKETBALL!

Heartened by their last victory, the Night Five is preparing to thrash the Upsala College Five at Kenilworth, N. Y., Saturday evening, January 29th. All men who wish to make the trip with the team should read the A. O. Bulletin Board for details. The time and money expense is very small and we should make a good showing of rooters.

The weekly workouts under the supervision of the new coach are proving the salvation of our crack team. They are improving with each one. Especially impressive is the system of defence being perfected. More about basketball in the following issues.

TRACK TEAM

The Cooper Union Day Dept. Track Team has come into existence this year mainly to promote more athletic interest among the students.

Credit is due to A. Duna and J. Bossert. They originally conceived the idea of a track team and took active measures towards organizing it.

At a meeting, which was held early in the school year, A. Duna, '23, was unanimously elected captain. He assumed the duties of his office immediately and has been training the men on the team ever since.

Places on the track team are still open to every student of the Day School. It is only necessary that you show what you can do.

To show what you can do means to come out and learn for yourself. It is not what you do at the first shot that establishes a criterion.

Come out and co-operate with us to bring Cooper Union to an athletic standing on a par with every other college!

J. CHIVONNA, '23,
Manager

INTER-CLASS GAMES TO
BEGIN FEBRUARY 18th

The Athletic Association has completed its plans for the inter-class tournament that is an annual event at the School. This year more than any previous year bids a hard and close fight for the class that can rightfully call itself the Champion, and claim its orange numerals.

Last year the present Seniors won their numerals by handily defeating the Class of 1920 in the deciding game. It will be exceedingly interesting to follow closely this year's contests because of the basketballers who have threatened to dethrone the Champs.

Arrangements have been made for practice on Friday evenings from 5:30 to 7:00 at the Oliver St. Gymnasium. However, the tournament will take place at the large Chelsea gymnasium on 28th Street near Ninth Avenue.

Who will proudly claim the numerals?

Next Home Game
JANUARY 29
with
N. Y. U. COMMERCIAL
Come Out and Cheer

COOPER DAY TO PLAY N. Y. U. COMMERCIAL

Saturday evening the Day School basketball team will appear, probably for the last time this season, in a game at the Savage Gymnasium. Our opponents will be no other than the fast aggregation representing the day division of the N. Y. U. School of Commerce and Accounts.

Those of you who were at the Manhattan game may expect to be enthused again as then, and those who were not but are surely coming to see our boys in action in our last home game may expect to share in this enthusiasm. Furthermore, we need every one of you and your friends to help the boys through with a cheer and a song for victory!

Surely you are going to be there! You dare not miss the pleasure of dancing with your own best girl to the jazzy strains of *our own jazz band!* Or miss seeing the *one* that inspires "Kid" Bossert to "do his dirtiest." And all of this for the price of your school spirit and the good fellowship that it breeds.

As a special request, we beg of you to be at Savage's as near 8 P. M. as you can that we may have more time for dancing. Thank you.

Parodizing the words of that famous leader: "Cooper expects every man to bring his Beauty."

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from Cooper is a
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COOPER UNION STUDENTS LEAGUE HAS SOCIAL MEETING

In accordance with the "Unwritten Law," the C. U. S. L. held a social on Friday, January 14, in connection with the inauguration of officers.

Meeting was opened by President J. Frank Newgarten. Program contained a sketch entitled, "The Little Red Mare."

Farmer C. Bussow
City Chap J. Cohen
Jockey I. Richmond

Several very well rendered musical numbers were presented.

A. I. Madison Violinist
B. Hildebrand Pianist
I. Friedman Pianist
A monologue was given by H. Patten.

The crowning features of the evening included the summary address by the retiring President, J. Frank Newgarten, in which the outstanding events of the administration were recounted, and the necessity to "carry on" the policy was impressed. In closing, the newly elected President, Carl Bussow, took great pains in effectively outlining the policy of the new administration, laying great stress on co-operation of the day and night schools.

The officers:

President C. Bussow, Chem, '22
Vice-Pres. H. Spiro, Chem, '22
Treasurer J. Bivona, Chem, '22
Rec. Sec. J. Finnin, E. E., '22
Finan. Sec. I. J. White, C. E., '22
Corr. Sec. R. Tupo, C. E., '22

ELABORATE PROGRAM BEING PREPARED FOR FOUNDER'S DAY CELEBRATION

February 12th marks the birthday of the founder of our institution.

As in past years, the celebration this year will be held in the large Auditorium of Cooper Union.

An extensive program is being prepared and will be announced in a later issue.

All students, alumni and their friends are welcome to attend.

COOPER DAY LOSES SPIRITED GAME TO SETON HALL

Saturday evening, January 15, the Cooper Union Quintet travelled to South Orange, where it lost a hard-fought game to the Seton Hall Five by the score of 48-25. The game was interesting and spirited throughout and the Cooper team won the plaudits of the Seton Hall followers by its fighting spirit and excellent passwork. But our boys lost out on the shooting. It was a common sight to see three Cooper men successively shoot the ball right under the basket, but the ball wouldn't behave.

During the first ten minutes, our team was ahead, but a volley of long shots by the Seton Hall tossers put them into the lead which they kept for the rest of the game. The half ended 26-16.

The second half found the Cooperites fast asleep. It may have been the late hour or the Jersey air, but our boys just couldn't get going. However, "Wild Joe" Meier and Hal Rhodes kept the Jerseyites on their toes by their slam-bang offense and defense. Our line up and point getters were:

	F. G.	Foul
Griffiths, R. F.	3	4
Bossert, L. F.	1	3
Rhodes, C.	2	0
Meier, L. G. (Capt.) ..	3	0
Diamond, R. G.	0	0
	9	7

Total—25 points.

Cooper Rooters = 3 + Seton Hall Fans.

THE ENGINEER

The engineer devotes himself to work which demands careful experiment and exact observation. His duties are numerous. Among the most important, are the development into practical realities those things which are but embryo possibilities. He directs the use of materials, in design and mechanical combination, so as to function in a manner such that a specific service is rendered. Also, he superintends the construction of his designs, where he details his men and equipment, to perform to the best advantage.

The engineer is one who by scientific design, utilizes the forces and materials of nature, and, because of his training and capabilities, is intrusted with the direction of man and money power, for use in a manner such as will tend toward the betterment of mankind.

The fruit of his labors is the progress of the universe.

The fundamental liberty conferred upon man, is the right to express his thoughts as they actually are. To alter his opinion so as to conform with that of another, the arguments, given by the latter, must convince the former.

FAMILIAR SAYINGS A COLUMN WITH THE PEDAGOGUES

"I give you fellows fair warning. Govern yourselves accordingly." (Repeat ad libitum.)

"See me in my boudoir."

"Listen to me. I know what is in the book; I wrote it."

"Learn to think rationally."

"Don't use a formula. Use common sense." (Voice from the rear—"He hasn't any.")

"There's an interesting problem."

The following letter was found in the contribution box. A searching party has been organized to find the author. Certain clues point in the direction of a freshman. We assure our readers that we'll have very little mercy for him.—Ed.

Dear Sirs,

Knowing that you are always interested in and open for any investment in a good live business proposition, and hoping that you will treat this letter strictly confidentially, I take the liberty of presenting to you what seems to me to be an excellent business proposition, and in which no doubt you will take a live interest. If this offer appeals to you, kindly let me hear from you promptly, advising me as to the amount of stock you wish to subscribe for towards the forming of the company for the exploitation of this idea.

I propose to organize a company to operate a large cat ranch near where land can be purchased cheaply.

To start with we will collect about 100,000 cats. Each cat will average twelve kittens a year. The skins will sell for from 10 cents for the white ones to 75 cents for the pure black. We will have about twelve million skins to sell, at an average of 30 cents apiece, making our revenue about \$10,000 a day gross.

A man can skin fifty cats a day. He will charge two dollars a day for his labor. It will take about 100 men to operate the ranch, therefore the profits will be about \$9,800 a day. We will feed the cats on rats and will start a rat ranch adjoining the cat ranch. The rats will multiply about four times as fast as the cats, and if we start with a hundred thousand rats, we will have four rats a day for each cat, which is plenty. We will feed the cats on rats, and in turn feed the rats on the stripped carcasses of the cats, thus giving each rat one-fourth of a cat.

It will be seen by these figures that the business will be a self-acting and automatic one. The cats will eat the rats and the rats will eat the cats, and we'll get the skins.

Awaiting your prompt reply, I beg to remain

Yours very truly,
The Self-Feeding Rat & Cat Co.

The Electrical Engineering Class of 1921

SENDS ITS

BEST WISHES

FOR THE

SUCCESS

OF THE

COOPER PIONEER

VICTORY FOR COOPER UNION (NIGHT)

(Continued from page 1)

Rosso and Ludwig by their great team work showed what "feeding" other members of the team really means. Rosso shot all but one of the free throws from foul. Ludwig put up the scrappiest game he has yet played. His jumping merits more than passing notice. Spiro, immediately upon taking the floor in the second half, shot two field goals, sending the spectators into ecstasies.

A word or two about the new big boy, George Quigley. He is by far the biggest man on the squad and has designs on the center position. Relieving Tynan, he seemed to fall in easily with the team-work of our boys, and ended one long brilliant pass himself by shooting a field goal. Watch this big boy.

For Fordham, Hoffman and Martini played best.

We trust that the brand of playing our "five" displayed will be continued for that is the sort of playing that wins, and it is not improbable that they will make a clean sweep of the rest of the schedule.

In a preliminary game our Juniors or the "kids" or "the kindergarten," whatever you may call them, engaged in a long tussle with Brooklyn Evening High School, and at the end of the time found themselves in front by the score of 25-24. Whew! Some game! The deciding goal was shot by "Kewpie" Katcher in the last minute of play.

Box Score! Feature Game!

Cooper Union		Fordham Law	
Night			
Rosso	F.	Hoffman	
Arcome	F.	Benjamin	
Ludwig	C.	Martini	
Tynan	G.	Ornstein	
Arillo	G.	Keogh	

Score at end of first half, 10-10.

Field Goals: Cooper Union: Arcome, Ludwig, Arillo, Quigley, Spiro (2). Fordham Law: Benjamin, Martini (2). From foul: Rosso (9), Ludwig (1), Hoffman 5, Benjamin 3. Substitutions: For Cooper: Ehrlich, Spiro, Quigley, Anderson, Mathes, Fidelgoetz.

Final score, 22-14.

Time of halves, 20 minutes.

Referee: A. Meininger, St. Francis College.

The first year electrical students had a class meeting last Thursday evening, after close of school. Chairman Scavetta reports that the freshmen E. E. men voted a hundred per cent subscription for the Cooper Pioneer.

We hope before long that every organized class will report such school spirit.

The freshman E. E. are full of sparks, so watch their support toward all activities.

JUNIORS AND SOPHS TIE IN BASKETBALL

The first interclass basketball game of the year, participated in by the teams representing the Junior and Sophomore classes of the Day Dept., resulted in a 21-21 tie. Both teams fought hard for victory, but were handicapped by lack of practice and team-work.

Bossert and Diamond starred for the Juniors, the former caging four field goals and five fouls. Reiss, Siegal and Matlin were the mainstay of the Sophomore team.

THE COOPER ORCHESTRA

The orchestra had its inception in September, 1919. Despite its many handicaps, it gave several presentations and completed the year with much credit to itself when it performed at the Annual School Exhibit and later at the Commencement.

Our strength at present is fifteen, but we need and want fifty. This is not a large number for so big a school as Cooper Union.

Those men who join now will play on Founder's Day, the evening of February 12th. Candidates will please report on Tuesday nights in the Students and Graduates Room at 9:30 P. M.

NEW COOPER NIGHT YELL

Cooper, garax, garax, garax,
Cooper, garax, garax,
Art, Mech, Sci, Elec,
That's the cry of Cooper Tech,
Cooper, Cooper, Cooper-Tech.

COMPLIMENTS OF THE IRVING LUNCH

113 EAST 14th ST.

Between 4th Ave. & Irving Pl.

THE STUDENTS' LEAGUE
BOYS FINISH THEIR ARGUMENTS
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CLASS ORGANIZATIONS

It is with great pleasure that we view the increase in class organizations. The time has passed when men would study side by side for a number of years, without knowing one another, or passing in the halls would seldom give a nod of recognition.

Now all is changed. Every class of the Chemistry Course of the Night Dept. and most of the General Science and Electrical Engineering classes have organizations. Even in the Art Courses have the stirrings of class spirit been felt. The Day Dept. is fully organized and much is being done to provide diversion for the students.

We have all realized the good which can be done through these organizations, we appreciate them, and we strive for them. The few classes which have not yet organized are urged to do so at once.

On Tuesday, Jan. 11, Prof. G. F. Bateman "kidnapped" the third year class of the Day Dept., and in a short address pointed out the advantages to be gained in meeting with one's classmates to discuss matters of common interest and to enjoy a bit of recreation. He urged that the class meetings, which for some reason or other had been discontinued, be resumed.

Inspired by what he said the class held a meeting Friday, the 21st, at which the following subjects were discussed:

1. The advantages of a class organization.
2. The advantages of a higher education.
3. Our debt to society.

Regular bi-monthly meetings are planned and Prof. Bateman has volunteered to work out a program and provide speakers.

This action on the part of the Professor but further illustrates the interest which the faculty has in the welfare of the students and their activities. It is for the student body to show its appreciation and worthiness of this consideration.

SUCCESS
TO THE
COOPER PIONEER
CHEM'. 25

"Perpetual Success"

COMPLIMENTS
of the
Electrical Engineering
Class of 1925

GENERAL SCIENCE CLASS OF 1924 (NIGHT)

Thanks to the efforts of C. Busow and J. Finnan, the General Science Class of 1924 has launched its organization. It has already adopted a constitution and at its next meeting will elect permanent officers.

The following are some of the reasons for this combine, as shown in the preamble of the constitution:

To promote and foster friendship among the members.

To attend lectures corollary to class work.

To have tours of inspection to engineering works.

And to have social gatherings at least once a term.

A better collection of reasons could seldom be assembled. Watch them, they have the "makin's."

CHEMISTRY CLASS OF 1925 (NIGHT)

Such boasts of good school spirit and good fellowship are very hard to rival. The organization boasts of 100% C. U. N. A. O., almost perfect attendance to all basket ball games, and above all, a marked presence of good-fellowship, as shown by the success of all their enterprises. It is rumored that the class is forming a basket ball team of its own and that soon challenges will be flying around, like diplomatic messages before the start of the late war.

THE CHESS CLUB

At a meeting of the Cooper Union Chess Club on Thursday night, January 20, an election was held, with the result that the following were elected officers:

Mr. Schappi, President.
Mr. Schwartz, Vice-President.
Mr. Gruenstein, Rec. Secretary.
Mr. Marchese, Cor. Secretary.
Mr. Salomon, Treasurer.

ARE YOU HUNGRY?

THEN HOP ACROSS
TO THE

SAGAMORE
Buffet Lunch

3rd AVE. & ST. MARKS PL.

NEW YORK